COURSE CONTENT FOR PYTHON

Core   1

CONTENT	DURATION
Introduction to Python & IDLE	5 hours
Python Syntax	
Inbult Packages	
Installation (Setting up Anaconda)	
Hands on Exercise	
Standard Input & Type Cast	5 hours
Operations & Control flows	
Conditional Statements	
Loops in Python, Strings Manupulations & List handling	
File, Errors & Exception Handling in Python	
Hands on Exercise	

Core   2

CONTENT	DURATION
Functions in Python	5 hours
OOPs in Python	
Object & Classes	
Socket Networking	
Hands on Exercise	
File Operations	
GUI Basics, Intoduction to Tkinter	5 hours
Creating basic GUIs & Programming	
SQL Basics	
Data Connections, Python to DB to Python	
Hands on Exercise	

Advance   1

CONTENT	DURATION
Introduction to Pandas	5 hours
Introduction to NumPy & SciPy	
Dataframe Operations	
Hands on Exercise	
Introduction to Matplotlib	5 hours
Plotting Graphs with Python	
Basics of Machine Learning	
Hands on Exercise	

Advance   2

CONTENT	DURATION
Introduction to OpenCV	5 hours
Basics of Computer Vision	
Computer Vision Exercises & Web Scrapping	
Hands on Exercise	
Introduction to Requests	5 hours
Serial and Data Acquistion	
Doubt Solving Session	
Hands on Exercise	

PROJECTS	DURATION
Discussion & Problem Solving	20 HOURS